

CLAIM LISTING

1-20 Canceled

21. (Currently Amended) A safety device for the detachable clamping of elements ~~that are moved relative to each other~~, the safety device comprising:

- (a) a base body adapted to be traversed by a component extending in an axial direction (Z) ~~in such a manner that, the base body being mounted with respect to the component so as to facilitate relative movement between the base body and the component in the axial direction are two elements that are moved with respect to each other;~~
- (b) the base body comprising at least one clamp element, ~~which presents the at least one clamp element including~~ at least one chamber into which a medium can be admitted through a medium supply to produce an elastic change of the respective chamber dimensions in a direction radial to the [[Z]] axial direction, the medium supply comprising a valve[[,]] which can be actuated via an actuation element that is mounted on the base body so as to facilitate relative movement between the base body and the actuation element ~~can be moved, relative to the base body, in the [[Z]] axial direction, such relative movement between the actuation element and the base body moving the valve between a closed condition in which medium is admitted into the at least one chamber and an open condition in which medium is released from the at least one chamber;~~

- 1 (c) wherein a section of the at least one chamber, or an element coupled to the at least
2 one chamber, ~~is designed to form~~ forms a respective force transmission element to
3 transmit a clamping force on the component; and
- 4 (d) wherein ~~the clamp element is designed so that~~ when medium is admitted into the
5 at least one chamber to produce an elastic change of its dimensions in a direction
6 radial to the [[Z]] axial direction, ~~it clamps or releases, via the~~ respective force
7 transmission element clamps or releases[[,]] the component in the ~~radial~~ direction
8 radial to the axial direction relative to the base body.
- 9

10 22. (Currently Amended) The safety device of claim 21, wherein the actuation element is
11 part of a weight body that is guided in the [[Z]] axial direction.

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13 23. (Currently Amended) The safety device of claim 22, wherein the weight body is arranged
14 adjacent to the base body in the [[Z]] axial direction, and wherein the weight body is
15 connected with the base body in a manner so it can be shifted in the [[Z]] axial direction
16 with respect to the base body.

17

18 24. (Currently Amended) The safety device of claim 23, wherein the weight body can be
19 moved relative to the base body from a first position that closes in which the valve is in
20 the closed condition into a second position [[that]] opens in which the valve is moved to
21 the open condition.

1 25. (Currently Amended) The safety device of claim 24, wherein the weight body is
2 ~~constructed to be~~ pressed by a force spring in the [[Z]] axial direction against the base
3 body.

4
5 26. (Currently Amended) The safety device of claim 25, wherein the weight body, during a
6 movement against the force spring, ~~opens~~ moves the valve~~[[,]]~~ to the open condition via
7 the actuation element.

8
9 27. (Currently Amended) The safety device of claim 21, wherein, when the valve is in the
10 open condition ~~opened~~, the at least one clamp element clamps the base body relative to
11 the component.

12
13 28. (Currently Amended) The safety device of claim 21, wherein the valve is adapted to be
14 moved to the closed condition by the movement of ~~[[the]]~~ a weight body against the base
15 body, to release the clamping of the component against the base body.

16
17 29. (Currently Amended) A safety device for the detachable clamping of elements ~~which are~~
18 ~~moved relative to each other~~, the safety device comprising:

19 (a) a base body, which is adapted to be penetrated by a component extending in an
20 axial direction [[Z]] in such a manner that the base body and the component

1 ~~components~~ are two elements ~~that are moved~~ at least one of which is movable
2 with respect ~~to each~~ the other;

3 (b) the base body including at least one clamp element, ~~which presents the~~ at least one
4 clamp element including at least one chamber into which a medium can be
5 admitted through a medium supply line, the medium supply line including a
6 valve[[,]] which can be actuated via an actuation element that is mounted on the
7 base body so as to facilitate relative movement between the base body and the
8 actuation element in the axial direction, such relative movement between the
9 actuation element and the base body moving the valve between a closed condition
10 in which medium is admitted into the at least one chamber and an open condition
11 in which medium is released from the at least one chamber ~~works in cooperation~~
12 ~~with the base body in the Z direction;~~

13 (c) wherein a section of the at least one chamber, or an element coupled to the at least
14 one chamber, ~~is designed to form~~ forms a respective force transmission element to
15 transmit a clamping force on the component; and

16 (d) wherein ~~the clamp element is designed so that,~~ when medium is admitted into the
17 at least one chamber, ~~to produce an elastic change of its dimensions in a direction~~
18 ~~radial to the Z direction, it clamps or releases, via the~~ respective force
19 transmission element clamps or releases[[,]] the component in a direction radial to
20 the axial direction ~~the radial direction relative to the base body.~~

1 30. (Currently Amended) The safety device of claim 29, wherein the actuation element is a
2 part of a structure ~~second component~~ substantially fixed relative to the component.

3
4 31. (Currently Amended) The safety device of claim 30, wherein the actuation element is
5 arranged adjacent to the base body in the [[Z]] axial direction, ~~where the base body is~~
6 ~~connected with the actuation element in a manner that allows shifting in the Z direction.~~

7
8 32. (Currently Amended) The safety device of claim 31, wherein the base body can be
9 moved relative to the actuation element from a first position ~~closing~~ in which the valve is
10 in the closed condition into a second position ~~opening~~ in which the valve is in the open
11 condition.

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13 33. (Currently Amended) The safety device of claim 32, wherein the base body is
14 constructed to be pressed by a spring force in the [[Z]] axial direction against the
15 actuation element.

16
17 34. (Currently Amended) The safety device of claim 33, wherein the base body moves the
18 valve to the open condition as the base body moves away from the actuation element ~~is~~
19 ~~constructed to, during a movement away from the actuation element, open the valve.~~

1 35. (Currently Amended) The safety device of claim 29, wherein the at least one clamp
2 element ~~is constructed to clamp~~ clamps the base body relative to the component[[,]] when
3 the valve is in the open condition ~~opened~~.

4
5 36. (Currently Amended) The safety device of claim 29, wherein the valve is adapted to
6 move to the closed condition ~~close~~ to release the clamping of the component against the
7 base body as a result of (a) movement of [[the]] a weight body against the base body, or
8 (b) movement of the base body against the actuation element.

9
10 37. (Currently Amended) The safety device of claim 29, wherein the valve in the open
11 condition is adapted to release the medium from the medium supply line to ~~in the opened~~
12 ~~position in~~ the environment or ~~in~~ to a medium recycling line.

13
14 38. (Currently Amended) The safety device of claim 29, wherein the at least one clamp
15 element is an annular membrane surrounding the component.

16
17 39. (Currently Amended) The safety device of claim 29, wherein the at least one clamp
18 element is substantially made of metal.

1 40. (Currently Amended) The safety device of claim 29, wherein the at least one chamber
2 further comprises top and bottom curved walls, which are adapted to partially flatten in
3 response to a reduction of medium pressure in the at least one chamber.